



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

**MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION**

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Soprema, Inc.
310 Quadral Drive
Wadsworth, OH 44281

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Soprema Modified Bitumen Roofing Systems over Gypsum Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 14-0603.05 and consists of pages 1 through 30.

The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 15-0709.12
Expiration Date: 03/01/21
Approval Date: 03/31/16
Page 1 of 30

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Modified Bitumen
Material: SBS
Deck Type: Gypsum
Maximum Design Pressure: -187.5 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

| <u>Product</u> | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u> |
|---------------------|---------------------|---------------------------|--|
| Soprabase | 39" x 99' (3 sq.) | ASTM D4601 | Oxidized asphalt, polyester reinforced, sand-surfaced base sheet. For use as a base/ply sheet only. |
| Soprabase S | 39" x 65' (2 sq.) | ASTM D4601 | SBS modified bitumen, polyester reinforced, sand-surfaced base sheet. For use as a base/ply sheet only. |
| Colvent SA | 39" x 49' (1.5 sq.) | ASTM D6163 | Fiberglass reinforced, modified bitumen membrane with 1" wide factory applied self-adhering strips on back side |
| Sopra IV | 36" x 180' (5 sq.) | ASTM D2178 Type IV | Type IV, fiberglass reinforced, smooth surfaced plysheet used in multi-ply systems and complies with ASTM and UL Standards. Applied in hot asphalt or cold adhesive. |
| Sopra VI | 36" x 180' (5 sq.) | ASTM D2178 Type VI | Type VI, fiberglass reinforced, smooth surfaced plysheet used in multi-ply systems and complies with ASTM and UL Standards. Applied in hot asphalt or cold adhesive. |
| Colvent TG | 39" x 49' (1.5 sq.) | ASTM D6163 | Fiberglass reinforced, modified bitumen membrane with 1" wide factory applied heat weldable strips on back side. |
| Colvent 180 TG | 39" x 43' (1 sq.) | ASTM D6164 | Polyester reinforced, modified bitumen membrane with 1" wide factory applied heat weld strips on back side. |
| Colvent Flam TG | 39" x 49' (1.5 sq.) | ASTM D6163 | Fiberglass reinforced, modified bitumen membrane with 1" wide factory applied heat weld strips on back side and a plastic burn-off film surface. |
| Colvent Flam 180 TG | 39" x 33' (1 sq.) | ASTM D6164 | Polyester reinforced, modified bitumen membrane with 1" wide factory applied heat weld strips on back side and a plastic burn-off film surface. |

| <u>Product</u> | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u> |
|------------------------|--------------------------|----------------------------------|--|
| Elastophene Sanded | 39" x 49' (1.5 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Colphene Sanded | 39" x 49' (1.5 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene Sanded 2.2 | 39" x 49' (1.5 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene Sanded 3.0 | 39" x 33' (1sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripped. |
| Elastophene HS | 39" x 66' (2 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane with fire retardants and sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene PS 3.0 | 39" x 49' (1.5sq.) | ASTM D6163 | Glass reinforced modified bitumen membrane with a plastic burn-off film for heat weld bonding to the top side. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene SP 2.2 | 39" x 49' (1.5 sq.) | ASTM D6163 | Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Colphene SP 2.2 | 39" x 49' (1.5 sq.) | ASTM D6163 | Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Elastophene SP 3.0 | 39" x 49' (1 sq.) | ASTM D6163 | Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Colphene SP 3.0 | 39" x 49' (1 sq.) | ASTM D6163 | Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Elastophene Flam | 39" x 33' (1 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane covered on both sides with a plastic burn-off film. Applied by heat welding. |

| <u>Product</u> | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u> |
|------------------------|--------------------------|----------------------------------|--|
| Elastophene Flam 2.2 | 39" x 49' (1.5 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane covered on both sides with a plastic burn-off film. Applied by heat welding. |
| Elastophene Flam HS | 39" x 33' (1 sq.) | ASTM D6162 | Woven fiberglass/polyester composite reinforced modified bitumen membrane with fire retardants and plastic burn-off film on both sides. Applied by heat welding. |
| Elastophene HS 62 | 39" x 33' (1 sq.) | ASTM D6162 | Woven fiberglass/polyester composite reinforced modified bitumen membrane with sanded surface on both sides. Applied in hot asphalt, cold adhesive. |
| Elastophene 180 Sanded | 39" x 49' (1.5 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Colphene 180 Sanded | 39" x 49' (1.5 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene 180 PS | 39" x 49' (1.5 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and a plastic burn-off film on the top. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Colphene 180 PS | 39" x 49' (1.5 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and a plastic burn-off film on the top. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene GR | 39" x 33' (1 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene LS FR GR | 39" x 33' (1 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene FR GR | 39" x 33' (1 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Elastophene FR+ GR | 39" x 33' (1 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping. |

| <u>Product</u> | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u> |
|---------------------------|--|----------------------------------|--|
| Elastophene Flam GR | 39" x 33' (1 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane with fire retardants, a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding. |
| Elastophene Flam LS FR GR | 39" x 33' (1 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane with fire retardants, a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding. |
| Elastophene Flam FR GR | 39" x 33' (1 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding. |
| Elastophene Flam FR+ GR | 39" x 33' (1 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding. |
| Sopralene 180 Sanded | 39" x 33' (1 sq.) 39" x 26' (¾ sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Sopralene 250 Sanded | 39" x 33' (1 sq.) 39" x 26' (¾ sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Sopralene 180 Sanded 2.2 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt or cold adhesive. |
| Sopralene 180 PS | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the top and sanded on the bottom. |
| Sopralene 180 PS 2.2 | 39" x 49' (1.5 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and a plastic burn-off film on the top. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Sopralene 180 SP 3.5 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |

| <u>Product</u> | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u> |
|-----------------------|--------------------------|----------------------------------|--|
| Colphene 180 SP 3.5 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene 180 SP 3.0 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. |
| Sopralene 250 SP | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. |
| Soprafix [S] | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment. |
| Soprafix Base 612 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment. |
| Soprafix [F] | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment. |
| Soprafix Base 613 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment. |
| Soprafix [X] | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment. |
| Soprafix Base 614 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment. |
| Soprafix | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a 4-inch or 5-inch wide side lap with a plastic burn-off film on the bottom and sanded on the top. Applied by mechanical attachment. Lap heat welded or sealed with an approved cold adhesive. |
| Soprafix Base 622 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a 4-inch or 5-inch wide side lap with a plastic burn-off film on the bottom and sanded on the top. Applied by mechanical attachment. Lap heat welded or sealed with an approved cold adhesive. |

| <u>Product</u> | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u> |
|-----------------------|--------------------------|----------------------------------|--|
| Soprafix-e | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a 5-inch wide side lap with a self-adhering compound and release film and sanded on the bottom and top surfaces. Applied by mechanical attachment. Lap self-adhered or sealed with approved cold adhesive. |
| Soprafix Base 641 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a 5-inch wide side lap with a self-adhering compound and release film and sanded on the bottom and top surfaces. Applied by mechanical attachment. Lap self-adhered or sealed with approved cold adhesive. |
| Soprafix Cap FR-651 | 39" x 33' (1 sq.) | ASTM D6163 | Fiberglass reinforced modified bitumen membrane with fire retardants, a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding. |
| Sopralene Flam 180 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Colphene Flam 180 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene Flam 250 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene 180 FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film). |
| Colphene 180 FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film). |

| <u>Product</u> | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u> |
|---------------------------|--------------------------|----------------------------------|---|
| Sopralene 180 FR+ GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene 180 Ultra FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene 250 FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film). |
| Colphene 250 FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene 250 Ultra FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene 250 FR+ GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene Flam 180 GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Colphene Flam 180 GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |

| <u>Product</u> | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u> |
|--------------------------------|--------------------------|----------------------------------|--|
| Sopralene Flam 180 FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Colphene Flam 180 FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene Flam 180 FR GR 3.5 | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene Flam 180 Ultra FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene Flam 250 FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Colphene Flam 250 FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene Flam 250 Ultra FR GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene Flam 180 FR+ GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |

| <u>Product</u> | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u> |
|----------------------------|--------------------------------------|----------------------------------|--|
| Sopralene Flam 250 FR+ GR | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film). |
| Sopralene Flam Antirock | 39" x 33' (1 sq.) | ASTM D6164 | Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding. |
| Sopralast 50 TV Alu | various | ASTM D6298 | Fiberglass reinforced modified bitumen sheeting faced with aluminum foil. Applied by heat welding of ribbon stripping (after removal of plastic burn-off film). |
| Sopralast 50 TV Alu Sanded | various | ASTM D6298 | Fiberglass reinforced modified bitumen sheeting sanded on the bottom and faced with aluminum foil. Applied in hot asphalt, cold adhesive or ribbon stripping. |
| Soprastar Flam | 39" x 33' (1 sq.) | ASTM D6162 | Polyester reinforced SBS modified bitumen membrane with a plastic burn-off film on the bottom side and a reflective white top surface. Applied by heat welding. |
| Sopralene Stick | 39" x 33' (1 sq.) | ASTM D6164 | Self-adhered, polyester reinforced membrane with a release film on the bottom and a sanded top. |
| Colphene Stick | 39" x 33' (1 sq.) | ASTM D6164 | Self-adhered, polyester reinforced membrane with a release film on the bottom and a sanded top. |
| Sopralene Flam Stick | 39" x 33' (1 sq.) | ASTM D6164 | Self-adhered, polyester reinforced membrane with a release film on the bottom and a plastic burn-off film on the top. |
| Elastocol 500 | various | ASTM D41 | Asphalt primer. |
| Elastocol Stick | various | ASTM D41 | Asphalt primer. |
| Elastocol Stick Zero | Various | ASTM D41 | Asphalt primer. |
| ALSAN Flashing™ | 1.25 gallon pail or 3.75 gallon pail | Proprietary | One part polyurethane/bitumen resin, moisture cure compound. |
| ALSAN Polyfleece | 4", 8" or 39" wide by 50' long | Proprietary | Non-woven polyester reinforcement used in the ALSAN Flashing system. |
| COLPLY Flashing Cement | 5 gallon pail | Proprietary | Elastomeric bitumen based mastic compound. |

| <u>Product</u> | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u> |
|--|--|----------------------------------|---|
| Soprawalk | 39" x 26' (3/4 sq.) | Proprietary | Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and mineral granules on the top. Applied by hot asphalt, cold adhesive or ribbon stripping. |
| High Velocity [®] Insulation Adhesive III (HVIA-III) | 4 dual cartridges per carton | Proprietary | Two part elastomeric urethane foam adhesive. |
| High Velocity [®] Insulation Adhesive III – Green | 4 dual cartridges per carton | Proprietary | Two part elastomeric urethane foam adhesive. |
| High Velocity Insulation Adhesive PG | 5 gal. or 50 gal. | Proprietary | Two part elastomeric urethane foam adhesive. |
| Duotack | 5, 50 gallon pail | Proprietary | Two part elastomeric urethane foam adhesive. |
| Duotack Neo | 5, 50 gallon pail | Proprietary | Two part polyurethane foam adhesive. |
| COLPLY Adhesive | 5 gallon pail or 55 gallon drum | Proprietary | Polymer modified cold process membrane adhesive. |
| COLPLY Modified Adhesive | 5 gallon pail, 55 gallon drum or 350 gallon tote | Proprietary | Elastomeric bitumen based cold adhesive. |
| COLPLY EF Adhesive | 5 gallon pail | Proprietary | Solvent free, polymeric adhesive. |

APPROVED INSULATIONS:**TABLE 2**

| Product Name | Product Description | Manufacturer (With Current NOA) |
|---------------------------|--|--|
| ACFoam-II, ACFoam-III | Polyisocyanurate foam insulation | Atlas Roofing Corporation |
| DensDeck | Water resistant gypsum board | Georgia Pacific Gypsum LLC |
| H-Shield | Polyisocyanurate foam insulation | Hunter Panels LLC |
| ENRGY 3 | Polyisocyanurate foam insulation | Johns Manville Corp. |
| Multi-Max FA-3 | Polyisocyanurate foam insulation | RMax Operating, LLC |
| Sopraboard | Mineral fortified asphaltic cored coverboard | Soprema, Inc. |
| M-Shield | Polyisocyanurate foam insulation | Soprema, Inc. |
| Sopra-ISO r | Polyisocyanurate foam insulation | Soprema, Inc. |
| Sopra-ISO s, Sopra-ISO+ s | Polyisocyanurate foam insulation | Soprema, Inc. |
| Sopra-ISO x | Polyisocyanurate foam insulation | Soprema, Inc. |

APPROVED FASTENERS:**TABLE 3**

| Fastener Number | Product Name | Product Description | Dimensions | Manufacturer (With Current NOA) |
|------------------------|--|--|-------------------|--|
| 1. | Trufast Twin Loc-Nail Assembled Fastener | Base ply fastening systems for lightweight concrete, gypsum or cementitious wood fiber decks | | Altenloh, Brinck & Co. U.S., Inc. |
| 2. | Trufast Twin Loc-Nail Batten Fastener | Batten bar | | Altenloh, Brinck & Co. U.S., Inc. |
| 3. | Polymer Batten Strip | Modified polymer batten bar | | OMG, Inc. |
| 4. | Dekfast Coiled Batten Strip | Batten bar | | SFS Intec, Inc. |
| 5. | Soprafix MBB-R | Metal Batten Bar | | Soprema, Inc. |
| 6. | SOPREMA Twin Loc-Nail | Base ply fastening systems for lightweight concrete, gypsum or cementitious wood fiber decks | | Soprema, Inc. |



APPROVED SURFACING/COATING OPTIONS:

TABLE 4

Chosen components must be applied according to manufacturer's application instructions. Any coating, listed below, used as a surfacing, must be listed within a current NOA.

| System Number | Manufacturer | Application |
|---------------|---|---|
| 1. | Generic | Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq., respectively. |
| 2. | Soprema, Inc. | Gravel applied at 400 lbs./sq., adhered with COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified at 4 gal./sq. |
| 3. | Karnak Corporation | Karnak (#97 AF) Fibered Aluminum Roof Coating applied at an application rate of 1.5 gal./sq. |
| 4. | Soprema, Inc. | Cural Aluminizer applied at an application rate of 2 gal./sq. |
| 5. | Thermo Manufacturing Systems, LLC | Super Prep Elastomeric Roof Maintenance Coating applied in two coats at an application rate of 1.5 gal./sq./coat. |
| 6. | Quest Construction Products LLC dba United Coatings | United Coatings Roof Mate Coating, applied in one base coat at a rate of 1.5 gal./sq., and one finish coat at a rate of 1.5 gal./sq. |
| 7. | Insulating Coatings Corporation | Astec 2000 Finish Coat applied in two base coats at a rate of 0.75 gal./sq./coat and two finish coats at a rate of 0.75 gal./sq./coat. |
| 8. | Henry Company | HE280DC White Elastomeric Roof Coating applied in two coats at an application rate of 1 gal./sq./coat. |
| 9. | National Coating Corp. | Acryshield® A500 applied in two coats at an application rate of 1 gal./sq./coat. |
| 10. | Soprema, Inc. | R Nova Plus applied in two coats. Base coat is applied at 3 gal/sq. (1.2 L/m ²) and allowed to dry. A top coat is applied at 1 gal/sq. (0.4 L/m ²). |
| 11. | Generic | Semi-ceramic coated colored granules. |

| <u>Test Agency/Identifier</u> | <u>Name</u> | <u>Report</u> | <u>Date</u> | |
|--------------------------------------|--|----------------------|--------------------|----------|
| Factory Mutual Research Corporation | 3024311 | FM 4470 | 11/01/06 | |
| | 3036182 | FM 4470 | 07/31/09 | |
| | 3044801 | FM 4470 | 02/27/12 | |
| | 3045101 | FM 4470 | 11/05/12 | |
| | 3047439 | FM 4470 | 07/22/13 | |
| | 3045734 | FM 4470 | 04/04/12 | |
| | 3046765 | FM 4470 | 02/15/13 | |
| | 3047351 | FM 4470 | 10/09/14 | |
| | 3042559 | FM 4470 | 10/18/11 | |
| | 3023458 | FM 4470 | 07/18/06 | |
| | 3053841 | FM 4470 | 03/27/15 | |
| | RR201595 | FM 4470 | 06/17/15 | |
| Underwriters Laboratories, Inc. | R11436 | UL 790 | 06/18/13 | |
| Trinity ERD | 2761.09.03 | TAS 114 | 09/02/03 | |
| | 2766.12.03 | /TAS 114 | 12/01/03 | |
| | S32840.06.10-R1 | TAS 117 (B) | 12/11/14 | |
| | S43400.08.14-5 | ASTM D6163 | 08/26/14 | |
| | S43400.08.14-6 | ASTM D6164 | 08/26/14 | |
| | S43400.08.14-7-R1 | ASTM D6164 | 11/20/14 | |
| | S43400.09.14-9 | ASTM D6164 | 09/02/14 | |
| | S43400.09.14-10 | ASTM D6298 | 09/08/14 | |
| | S45010.02.14 | ASTM D6506 | 02/07/14 | |
| | S43400.08.14-4-R1 | ASTM D6163 | 10/24/14 | |
| | S44110.09.14-3 | ASTM D6163 | 09/08/14 | |
| | S44110.09.14-7C | ASTM D6164 | 09/02/14 | |
| | S44220.09.14-1 | ASTM D6162 | 09/08/14 | |
| | S11440.11.10-4 | ASTM D2178 | 11/17/10 | |
| | S11440.11.10-3-R2 | ASTM D4601/TAS 117-B | 08/26/14 | |
| | S44220.09.14-7A | ASTM D4601 | 09/08/14 | |
| | S11440.12.10-1-R1 | ASTM D6163 | 06/07/12 | |
| | S32700.12.10-R2 | ASTM D6162 | 07/07/14 | |
| | S35860.12.11-1-R1 | ASTM D2178 | 12/12/14 | |
| | S35860.05.12-1-R2 | ASTM D6163 | 03/14/13 | |
| | S35860.05.12-2-R3 | ASTM D6164 | 08/29/14 | |
| | S35860.05.12-3-R1 | ASTM D6164 | 03/14/13 | |
| | S47160.01.14-R1 | TAS 114 | 12/11/14 | |
| | S43210.11.14 | ASTM D1876 | 11/10/14 | |
| | PRI Construction Materials Technologies, LLC | SOP-049-02-01 | ASTM D1644/D2196 | 05/31/12 |
| | | SOP-043-02-01 | ASTM D4601 | 02/27/12 |
| | | SOP-042-02-01 | ASTM D4601 | 02/27/12 |
| | | SOP-041-02-01 | ASTM D2178 | 02/27/12 |
| | | SOP-040-02-01 | ASTM D2178 | 02/27/12 |
| | | SOP-010-02-01.03 | TAS-138 | 07/26/11 |

EVIDENCE SUBMITTED: (CONTINUED)

| <u>Test Agency/Identifier</u> | <u>Name</u> | <u>Report</u> | <u>Date</u> |
|--|--------------------|----------------------|--------------------|
| PRI Construction Materials Technologies, LLC | SOP-050-02-01 | ASTM D3019 | 07/12/12 |
| | SOP-056-02-01 | Physical Properties | 09/12/12 |
| | EATC-001-02-01 | ASTM D4586 | 04/07/09 |
| Atlantic & Caribbean Roof Consulting, LLC | ACRC 15-048 | TAS 114 | 01/04/16 |
| | ACRC 15-035 | TAS 114 | 12/16/15 |



APPROVED ASSEMBLIES

Membrane: SBS

Deck Type 6I: Gypsum, Insulated

Deck Description: Poured Gypsum

System Type A(1): Anchor sheet mechanically fastened, all layers of insulation adhered with approved asphalt or adhesive.

All General and System Limitations apply.

Anchor Sheet: One layer Soprabase, Soprabase S, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded, Sopralene 180 Sanded 2.2, Sopralene 250 Sanded, Sopralene 250 SP, mechanically attached with 1.8" long Trufast Twin Loc-Nail Assembled Fastener or SOPREMA Twin Loc-Nails spaced 6" o.c. in min. 4" lap and 6" o.c. in two evenly spaced, staggered rows in the field.

One or more layers of the following.

| Base Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|---|-----------------------------------|-------------------------------------|
| ACFoam-II, ACFoam-III, Sopra-ISO s, Sopra-ISO+ s, ENRGY 3, Multi-Max FA-3, Sopra-ISO x, H-Shield, M-Shield, Sopra-ISO r (flat or tapered) Minimum 1.5" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
| DensDeck Minimum ¼" thick | N/A | N/A |
| Sopraboard Minimum 1/8" thick | N/A | N/A |
| SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick | N/A | N/A |

Note: All insulation shall be adhered to the vapor barrier in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft², or in Soprema High Velocity® Insulation Adhesive III (HVIA-III), High Velocity® Insulation Adhesive III –Green, High Velocity® Insulation Adhesive PG, Duotack, Duotack Neo, Millennium One Step Foamable Adhesive, Millennium One Step Green Foamable Adhesive or Millennium PG-1 Low Viscosity Insulation Adhesive in ¾" wide ribbons spaced 6" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as a final membrane substrate.

Primer: Elastocol 500, Elastocol Stick, Elastocol Stick Zero at a rate of 1 gal./sq.

(Optional)

Base Sheet: One layer of Colvent SA, Sopralene Stick, Colphene Stick or Sopralene Flam Stick*, self-adhered.

Or

One layer Colvent TG, Colvent 180 TG, Colvent Flam TG*, Colvent Flam 180 TG*, torch-applied.

*Requires torch-applied ply or cap membrane.



| | |
|--|---|
| Ply Sheet: (Optional) | Elastophene Flam*, Elastophene Flam 2.2*, Elastophene Flam HS*, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180*, Colphene Flam 180*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Soprafix, Soprafix Base 622, Sopralene Flam 250*, Sopralene 250 SP, torch-applied. |
| | Or |
| Ply Sheet: (Optional) (Cont.) | Elastophene Sanded, Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS*, Colphene 180 PS*, Sopralene 180 PS 2.2*, Sopralene 180 Sanded, Sopralene 180 PS*, Sopralene 250 Sanded, adhered in hot asphalt at 25 lbs./sq. or applied in COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive at a rate of 1.5 gal./sq. to sand surfaced base membrane. *Requires torch-applied cap membrane. |
| Membrane: | One layer of Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, Soprapstar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, torch-applied. |
| | Or |
| | One layer of Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 Ultra FR GR, Sopralast 50 TV Alu Sanded adhered in hot asphalt at 25 lbs./sq. or applied in COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive at a rate of 1.5 gal./sq. to sand surfaced base membrane. |
| Surfacing: | Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. |
| Maximum Design Pressure: | -60 psf. (See General Limitation #7.) |

Membrane: SBS

Deck Type 6I: Gypsum, Insulated

Deck Description: Poured Gypsum

System Type A(2): Anchor sheet adhered, all layers of insulation adhered with approved asphalt or adhesive.

All General and System Limitations apply.

Vapor Barrier: One layer of Sopra G, Modified Sopra G, Soprabase, Elastophene Sanded, Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Sopralene 180 Sanded or Sopralene 250 Sanded adhered in hot asphalt at 25 lbs./sq. or applied in COLPLY EF Adhesive applied in ½” to ¾” wide ribbons spaced 12” o.c.

One or more layers of the following.

| Base Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft² |
|--|---|--|
| H-Shield, M-Shield, Sopra-ISO r, Multi-Max FA-3, Ultra-Max, SOPRA-ISO x, ENRGY 3, H-Shield CG, Sopra-ISO+ r, M-Shield CG, ACFoam-II, ACFoam-III, SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3 AGF, ENRGY 3 CGF, EnergyGuard Polyiso Insulation Minimum 1.5” thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft² |
| Sopraboarboard Minimum 1/8” thick | N/A | N/A |

Note: All insulation shall be adhered to the vapor barrier in Duotack or Duotack Neo in ½” to ¾” wide ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as a final membrane substrate.

Base Sheet: One layer of Sopra G, Modified Sopra G, Soprabase, Elastophene Sanded, Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS*, Colphene 180 PS*, Sopralene 180 PS 2.2*, Sopralene 180 Sanded, Sopralene 180 PS* or Sopralene 250 Sanded adhered in hot asphalt at 25 lbs./sq. or applied in COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive applied in ½” to ¾” wide ribbons spaced 12” o.c. to lightweight insulating concrete.

Or

One layer of Elastophene Flam*, Elastophene Flam 2.2*, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene Flam 180*, Colphene Flam 180*, Sopralene Flam 250*, Colvent TG, Colvent 180 TG, Colvent Flam TG*, Colvent Flam 180 TG*, torch-applied.

Or

| | |
|------------------------------------|--|
| Base Sheet: (Continued) | <p>One layer of Elastophene Stick, Sopralene Stick, Colphene Stick, Elastophene Flam Stick* or Sopralene Flam Stick*, self-adhered to substrate primed with Elastocol Stick Zero.</p> <p>*Requires torch-applied ply or cap membrane</p> |
| Ply Sheet: (Optional) | <p>One layer of Sopra G, Modified Sopra G, Soprabase, Elastophene Sanded, Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS*, Colphene 180 PS*, Sopralene 180 PS 2.2*, Sopralene 180 Sanded, Sopralene 180 PS* or Sopralene 250 Sanded adhered in hot asphalt at 25 lbs./sq. or applied in COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive applied at a rate of 1.5 – 2 gal./sq.</p> <p>Or</p> <p>One layer of Elastophene Flam*, Elastophene Flam 2.2*, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene Flam 180*, Colphene Flam 180*, Sopralene Flam 250*, Colvent TG, Colvent 180 TG, Colvent Flam TG*, Colvent Flam 180 TG*, torch-applied.</p> <p>Or</p> <p>One layer of Elastophene Stick, Sopralene Stick, Colphene Stick, Elastophene Flam Stick* or Sopralene Flam Stick*, self-adhered.</p> <p>*Requires torch-applied ply or cap membrane</p> |
| Membrane: | <p>Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Sopralene Flam 180 Ultra FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, SopraStar Flam, Sopralast 50 TV Alu, Sopralene Flam Antirock, torch-applied.</p> <p>Or</p> <p>Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Elastophene FR+ GR, SopraStar Sanded, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 Ultra FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 Ultra FR GR, Sopralene 250 FR+ GR, Sopralast 50 TV Alu Sanded, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive at 1.5 – 2.0 gallons/square to sand surfaced base/ply membrane.</p> |
| Surfacing: | <p>Surfacing is Optional on granular surfaced field cap membranes.</p> <p>Surfacing is Required for smooth or sanded surfaced field cap membranes.</p> <p>Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.</p> <p>Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.</p> |
| Maximum Design Pressure: | -115 psf. (See General Limitation #9.) |

Membrane: SBS
Deck Type 6I: Gypsum, Insulated
Deck Description: Poured Gypsum
System Type D(1): Base sheet attached over preliminary fastened insulation.

All General and System Limitations apply.

One or more layers of any of the following insulations.

| Base Insulation Layer (Optional) | Insulation Fasteners (Table 3) | Fastener Density/ft² |
|--|---|--|
| Any approved insulation board listed in Table 2 (Flat or Tapered) | | |
| Minimum 1.5" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft² |
| Any approved coverboard board listed in Table 2 | | |
| Minimum 1/4" thick | 1 | See Note Below |

Note: Top insulation layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Primer: Elastocol 500, Elastocol Stick, Elastocol Stick Zero applied at a rate of 1 gal./sq.,
(Optional) to top surface of any insulation, base or ply sheet prior to application of next layer

Base Layer: One layer Soprafix, Soprafix Base 622, Soprafix [S]*, Soprafix Base 612*, Soprafix [F]*, Soprafix Base 613*, Soprafix [X]*, Soprafix Base 614*, Soprafix-e or Soprafix Base 641, mechanically attached with Trufast Twin Loc-Nail Assembled Fastener or SOPREMA Twin Loc-Nails spaced 6" o.c. through OMG Polymer Batten Strip, Trufast Twin Loc-Nail Batten Fastener, Dekfast Coiled Batten Strip or Soprafix MBB-R, placed in the lap and in one row centered in the field.
Center fastener row is covered with an 8" wide strip of Sopralene Flam Stick*, Sopralene Stick or Colphene Stick, self-adhered.
*Requires torch-applied ply or cap membrane.

Ply Sheet: Elastophene Flam*, Elastophene Flam 2.2*, Elastophene Flam HS*, Elastophene
(Optional) SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180*, Colphene Flam 180*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Soprafix, Soprafix Base 622, Sopralene Flam 250* or Sopralene 250 SP, torch-applied.

Or

**Ply Sheet:
(Optional)
(Continued)**

Elastophene Sanded, Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS*, Colphene 180 PS*, Sopralene 180 PS 2.2*, Sopralene 180 Sanded, Sopralene 180 PS*, Sopralene 250 Sanded, adhered in hot asphalt at 25 lbs./sq. or applied in COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive at a rate of 1.5 gal./sq. to sand surfaced base membrane.

*Requires torch-applied cap membrane.

Membrane:

One layer of Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, SopraStar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, torch-applied.

Or

One layer of Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 Ultra FR GR, Sopralast 50 TV Alu Sanded adhered in hot asphalt at 25 lbs./sq. or applied in COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive at a rate of 1.5 gal./sq. to sand surfaced base or ply membrane.

Surfacing:

Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes.

Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design
Pressure:**

-45 psf. (See General Limitation #7.)

Membrane: SBS
Deck Type 6I: Gypsum, Insulated
Deck Description: Poured Gypsum
System Type D(2): Base sheet attached over preliminary fastened insulation.

All General and System Limitations apply.

One or more layers of any of the following insulations.

| Base Insulation Layer (Optional) | Insulation Fasteners (Table 3) | Fastener Density/ft² |
|--|---|--|
| Any approved insulation board listed in Table 2 (Flat or Tapered) | | |
| Minimum 1.5" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft² |
| Any approved coverboard board listed in Table 2 | | |
| Minimum 1/4" thick | 1 | See Note Below |

Note: Top insulation layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Primer: Elastocol 500, Elastocol Stick, Elastocol Stick Zero applied at a rate of 1 gal./sq.,
(Optional) to top surface of any insulation, base or ply sheet prior to application of next layer

Base Layer: One layer Soprafix, Soprafix Base 622, Soprafix [S]*, Soprafix Base 612*, Soprafix [F]*, Soprafix Base 613*, Soprafix [X]*, Soprafix Base 614*, Sopralene Flam 180*, Colphene Flam 180* or Sopralene Flam 250* mechanically attached with Trufast Twin Loc-Nail Assembled Fastener or SOPREMA Twin Loc-Nails spaced 6" o.c. through OMG Polymer Batten Strip, Trufast Twin Loc-Nail Batten Fastener, Dekfast Coiled Batten Strip or Soprafix MBB-R, placed in the lap and in one row centered in the field. Center fastener row is covered with an 8" wide strip of Sopralene Flam Stick*, Sopralene Stick or Colphene Stick, self-adhered.

Ply Sheet: One or more layers of Sopralene Flam 180*, Colphene Flam 180* or Sopralene
(Optional) Flam 250*, torch-applied.

Membrane: One layer of Soprapstar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralene Flam Antirock, Soprafix Cap FR-651, torch-applied.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
 Surfacing is Required for smooth or sanded surfaced field cap membranes.
 Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
 Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -82.5 psf. (See General Limitation #7.)



Membrane: SBS
Deck Type 6: Gypsum, Non-Insulated
Deck Description: Poured Gypsum
System Type E(1): Base sheet mechanically fastened to substrate.

All General and System Limitations apply.

Primer: Elastocol 500, Elastocol Stick, Elastocol Stick Zero applied at a rate of 1 gal./sq.,
(Optional) to top surface of any base or ply sheet prior to application of next layer

Base Layer: One layer Soprafix, Soprafix Base 622, Soprafix [S]*, Soprafix Base 612*, Soprafix [F]*, Soprafix Base 613*, Soprafix [X], Soprafix Base 614, Soprafix-e or Soprafix Base 641, mechanically attached with Trufast Twin Loc-Nail Assembled Fastener or SOPREMA Twin Loc-Nails spaced 6" o.c. through OMG Polymer Batten Strip, Trufast Twin Loc-Nail Batten Fastener, Dekfast Coiled Batten Strip or Soprafix MBB-R, placed in the lap and in one row centered in the field. Center fastener row is covered with an 8" wide strip of Sopralene Flam Stick*, Sopralene Stick or Colphene Stick, self-adhered.

*Requires torch-applied ply or cap membrane.

Ply Sheet: Elastophene Flam*, Elastophene Flam 2.2*, Elastophene Flam HS*, Elastophene
(Optional) SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180*, Colphene Flam 180*, Sopralene 180 SP 3.5, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Soprafix, Soprafix Base 622, Sopralene Flam 250* or Sopralene 250 SP, torch-applied.

Or

Elastophene Sanded, Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS*, Colphene 180 PS*, Sopralene 180 PS 2.2*, Sopralene 180 Sanded, Sopralene 180 PS*, Sopralene 250 Sanded, adhered in hot asphalt at 25 lbs./sq. or applied in COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive at a rate of 1.5 gal./sq. to sand surfaced base membrane.

*Requires torch-applied cap membrane.

Membrane: One layer of Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, SopraStar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, torch-applied.

**Membrane:
(Continued)**

Or

One layer of Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 Ultra FR GR, Sopralast 50 TV Alu Sanded adhered in hot asphalt at 25 lbs./sq. or applied in COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive at a rate of 1.5 gal./sq. to sand surfaced base or ply membrane.

Surfacing:

Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes.

Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design
Pressure:**

-45 psf. (See General Limitation #7.)

Membrane: SBS
Deck Type 6: Gypsum, Non-Insulated
Deck Description: Poured Gypsum
System Type E(2): Base sheet mechanically fastened to substrate.

All General and System Limitations apply.

Primer: Elastocol 500, Elastocol Stick, Elastocol Stick Zero applied at a rate of 1 gal./sq.,
(Optional) to top surface of any base or ply sheet prior to application of next layer

Base Sheet: Soprabase, Soprabase S, Sopralene Flam 180*, Colphene Flam 180*, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Soprafix, Soprafix Base 622, Soprafix [S]*, Soprafix Base 612*, Soprafix [F]*, Soprafix Base 613*, Soprafix [X]*, Soprafix Base 614*, Sopralene Flam 250*, Sopralene 250 SP, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Elastophene 180 PS*, Colphene 180 PS*, Sopralene 180 PS 2.2*, Sopralene 180 Sanded, Sopralene 180 PS*, Sopralene 250 Sanded, mechanically attached with 1.8" long Trufast Twin Loc-Nail Assembled Fastener or SOPREMA Twin Loc-Nails spaced 6" o.c. in a min. 4" lap and 6" o.c. in two evenly spaced staggered rows in the field.
*Requires torch-applied ply or cap membrane.

Ply Sheet: Elastophene Flam*, Elastophene Flam 2.2*, Elastophene Flam HS*, Elastophene
(Optional) SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180*, Colphene Flam 180*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Soprafix, Soprafix Base 622, Sopralene Flam 250* or Sopralene 250 SP, torch-applied.

Or

Elastophene Sanded, Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS*, Colphene 180 PS*, Sopralene 180 PS 2.2*, Sopralene 180 Sanded, Sopralene 180 PS* or Sopralene 250 Sanded adhered in hot asphalt at 25 lbs./sq. or applied in COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive at a rate of 1.5 gal./sq. to sand surfaced base membrane.

Membrane: One layer of Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, torch-applied.

Or

| | |
|----------------------------------|---|
| Membrane: (Continued) | One layer of Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 Ultra FR GR, Sopralast 50 TV Alu Sanded adhered in hot asphalt at 25 lbs./sq. or applied in COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive at a rate of 1.5 gal./sq. to sand surfaced base or ply membrane. |
| Surfacing: | Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. |
| Maximum Design Pressure: | -60 psf. (See General Limitation #7.) |

Deck Type 6: Gypsum, Non-Insulated

Deck Description: Poured Gypsum

System Type E(3): Base sheet mechanically fastened to substrate.

All General and System Limitations apply.

Primer: Elastocol 500, Elastocol Stick, Elastocol Stick Zero applied at a rate of 1 gal./sq.,
(Optional) to top surface of any base or ply sheet prior to application of next layer

Base Layer: One layer Soprafix, Soprafix Base 622, Soprafix [S], Soprafix Base 612, Soprafix [F], Soprafix Base 613, Soprafix [X], Soprafix Base 614, Soprafix-e or Soprafix Base 641, mechanically attached with Trufast Twin Loc-Nail Assembled Fastener or SOPREMA Twin Loc-Nails spaced 6" o.c. through OMG Polymer Batten Strip, Trufast Twin Loc-Nail Batten Fastener, Dekfast Coiled Batten Strip or Soprafix MBB-R, placed in the lap and in one row centered in the field.
Center fastener row is covered with an 8" wide strip of Sopralene Flam Stick, Sopralene Stick or Colphene Stick, self-adhered.

Ply Sheet: One or more layers of Sopralene Flam 180, Colphene Flam 180 or Sopralene Flam
(Optional) 250, torch-applied.

Membrane: One layer of Soprapstar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralene Flam Antirock, Soprafix Cap FR-651, torch-applied.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -82.5 psf. (See General Limitation #7.)

Deck Type 6: Gypsum, Non-Insulated

Deck Description: Poured Gypsum

System Type F(1): Base Sheet adhered to deck. Membrane subsequently adhered.

All General and System Limitations apply.

Base Layer: One layer of Sopra G, Modified Sopra G, Soprabase, Elastophene Sanded, Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS*, Colphene 180 PS*, Sopralene 180 PS 2.2*, Sopralene 180 Sanded, Sopralene 180 PS* or Sopralene 250 Sanded adhered in hot asphalt at 25 lbs./sq. or applied in COLPLY EF Adhesive applied in 1/2" to 3/4" wide ribbons spaced 12" o.c. to gypsum deck.

*Requires torch-applied ply or cap membrane.

**Ply Sheet:
(Optional)** One layer of Sopra G, Modified Sopra G, Soprabase, Elastophene Sanded, Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS*, Colphene 180 PS*, Sopralene 180 PS 2.2*, Sopralene 180 Sanded, Sopralene 180 PS* or Sopralene 250 Sanded adhered in hot asphalt at 25 lbs./sq. or applied in COLPLY EF Adhesive, COLPLY Adhesive or COLPLY Modified Adhesive at a rate of 1.5 – 2 gal./sq.

Or

One layer of Elastophene Flam, Elastophene Flam 2.2, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene Flam 180, Colphene Flam 180, Sopralene Flam 250, Colvent TG, Colvent 180 TG, Colvent Flam TG*, Colvent Flam 180 TG*, torch-applied

*Requires torch-applied ply or cap membrane.

Membrane: Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Sopralene Flam 180 Ultra FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Soprarstar Flam, Sopralast 50 TV Alu, Sopralene Flam Antirock, torch-applied.

Or

Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Elastophene FR+ GR, Soprarstar Sanded, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 Ultra FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 Ultra FR GR, Sopralene 250 FR+ GR, Sopralast 50 TV Alu Sanded, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in COLPLY EF Adhesive, COLPLY Adhesive or COLPLY Modified Adhesive at 1.5 – 2.0 gallons/square to sand surfaced ply membrane.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -187.5 psf. (See General Limitation #9.)

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.
Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. Insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE